

In a repeating apparatus of a layer 2 LAN, when a received frame is a destination-unknown frame, a frame for path detection having a shortest data length is generated using a destination address of the above-mentioned received frame and an address of the own apparatus and it is broadcasted; and when a responding frame returned from a repeating apparatus having found the destination for the above-mentioned frame for path detection is received, the above-mentioned received frame is transmitted for a transmission source of the above-mentioned responding frame.

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